

Western Electric Company, Inc.,
Engineering Dept.,
New York.

(2 Pages) Page #1.
Issue 1 - BT-431471.
June 28, 1920.

METHOD OF OPERATION
LINE CIRCUIT

To Supervisor - From Trouble Desk - FULL MECHANICAL POWER DRIVEN SYSTEM.

GENERAL DESCRIPTION:

1. This circuit is used between the trouble desk and the supervisor's position at the special "A" board and the regular and long distance cordless "B" board.
2. The service between the trouble desk and the supervisor's position at the special "A" board is one way.

DETAILED DESCRIPTION:

OPERATION:

3. When the C1S key at the trouble desk is operated to call a "B" board supervisor, the E34 relay operates, lighting the lamp at the trouble desk as a busy signal, and a circuit is closed over the lead L1 to light the lamp at the supervisor's position at the "B" board. After the C1S key is released, the E34 relay remains locked over the L3 lead, preventing the E31 relay from operating and causing the lamp to flash. When the key in the supervisor's circuit is released the E34 relay releases, extinguishing the busy signal lamp and restoring the circuit to normal. In the case, of a call to the "A" board, ground connected to the L1 lead through the contact of the talking key operates a relay in the supervisor's circuit which causes a lamp to light.
4. On an incoming call from the supervisor's position at the regular or long distance "B" board the E31 relay operates, flashing the lamp at the trouble desk. When the call is answered by the operation of the C1S key, the E34 relay operates, releasing the E31 relay and causing the lamp to burn steadily as a busy signal. When the keys at both ends are released, the E34 relay releases, extinguishing the lamp.

3975 - 407
5515 - 407

CIRCUIT REQUIREMENTS

OPERATE

NON-OPERATE

RELEASE

E31 Test .025 amp.
 Readj. .012 amp.

Test .0038 amp.
Readj. .004 amp.

E34 Test .029 amp.
 Readj. .020 amp.

Test .015 amp.
Readj. .016 amp.